

4G LTE Cellular Ethernet Bridge/Serial Gateway

The new IPn4Gb provides a secure industrial strength wireless solution using the new and ultra fast 4G LTE network infrastructure. The IPn4Gb features integrated Firewall, IPSec / VPN Tunneling, IP and MAC Access Control Lists. The IPn4Gb can transport critical data to and from SMS, Ethernet and Serial RS232/RS485 devices. The optional WiFi can provide services for 802.11 devices!

4G LTE

Firewall / ACL

Digital I/O

SMS Messaging

802.11 WiFi

2 - RS232/485 Ports



Features

- Ultra Fast 4G LTE Operation
- **New** - Additional Band Support for Global Connectivity
- 100Mbps Downlink / 50 Mbps Uplink
- Auto APN & IP Pass-through Mode
- High Power 802.11 with Multiple SSID and AP Isolation
- Firewall with ACL Security, DMZ & Port Forwarding
- Digital I/O - 1 Input, 1 Output
- IPSec, GRE / VPN Tunneling
- 2 Serial Com Ports, 1 Ethernet Port, Optional USB
- Integrated GPS (TCP/UDP/Serial/SMTP/Recorder)
- SMS Support: Serial, Ethernet (Telnet), Alerts, Commands
- Modbus Master/Slave Support (TCP/Serial)
- Wide Operating Temperature (-40°C to +85°C)
- User interface via local console, telnet, web browser
- PTCRB Approved



IPn4G

Specifications

Supported Bands	LTE FDD (Bands 1-5,7,8,13,17,18,19,20) UMTS DC-HSPA+ (Bands 1,2,4,5,8) GSM GPRS EDGE (Bands 2,3,5,8) 3GPP Protocol Stack Release 9	Firewall	NAT, NAT-T VPN tunneling, Port forwarding, VPN/GRE pass-through; Access control lists (IP/MAC filtering), Data origin / integrity Authentication, DMZ
Data Features	LTE: DL 100 Mbps, UL 50 Mbps HSPA+: DL 42 Mbps, UL 5.7 Mbps HSPA+: DL 21 Mbps, UL 5.7 Mbps WCDMA: DL/UL 384 kbps EDGE Class 33: DL/UL 236.8 kbps GPRS Class 33: DL/UL 85.6kbps	Management	Local Serial Port Console, Telnet, SSH, WebUI, SNMP V1/2/3, Wireless Upgrade (HTTP/FTP), RADIUS authentication, AT Command Interface (Serial/Telnet), Modbus Master/Slave (TCP/Serial), Microhard NMS Support, Time Synchronization
Frequency (WiFi)	2.4 GHz, 802.11b/g	Diagnostics	RSSI, Ec/No, Voltage, Temperature, Remote diagnostics, Watchdog, UDP Event Reporting, SMS Alerts, Netflow Reporting, Syslog, Local IP Monitor
Output Power (WiFi)	Adjustable / Up to 30dBm	Input Voltage	7-30VDC 12-24 VAC (optional)
Serial Interface	1 x RS232 (300 baud to 921k) 1 x RS232/422/485 (2/4 wire)	Power Consumption @ 12V	Running: 90mA - 200mA
Serial Baud Rate	300bps to 921kbps	Connectors:	Antenna(s) SMA Female x2 (TX/RX, Diversity) Data RJ-45 (Ethernet) SIM Female DB9 x2 1.8 / 3.0V (Optional Dual SIM Available)
Serial Port Server	-Extensive Serial Port Support: TCP Server & Client / UDP Server & Client / Modbus / PPP / SMS / SMTP / AT com- mand / Transparent GPS	Environmental	Operating Temperature -40°C to +85°C -40°F to +185°F Humidity 5-95%, non-condensing
Ethernet	10/100 BaseT, Auto - MDI/X IEEE 802.3	Weight	Approx. 250 grams
Digital I/O	1 - Input, 1 - Output	Dimensions	Approx. 2.25" x 3.85" x 1.5" (57mm x 98mm x 45mm)
USB (Optional)	USB 2.0 USB Console Port USB to Serial Data Routing USB to Ethernet Data Routing (NDIS)	Approvals	PTCRB FCC / IC Carrier Specific Approvals: Bell, Rogers, Telus
GPS	NMEA Messages, GpsGate Integration, Local GPS Streaming, GPS TCP Server, GPS UDP Reporting, GPS SMTP Reporting (Email), GPS Recorder	Order Options	
SMS	SMS to/from Serial RS232/485 SMS to/from Ethernet via Telnet SMS Alerts, SMS Commands	Model	IPn4Gb
Carrier Connection	Auto APN, Dial on Demand, PAP, CHAP, Idle Time, ICMP Keep Alive, DDNS IP pass-through, Wireless Connection Time- out, SIM Pin, Carrier Selection, Roaming control.	-C1D2	Class 1 Div 2 (for use in hazardous environments)
Network Protocols	TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Serial over IP, Modbus Master/Slave (TCP/Serial), Static Routing, GRE Tunneling	-AC	12-24 VDC / VAC 50/60Hz
Security	VPN, IPSec with IKE/ISAKMP; Preshared Key & X509 CA, Multiple tunnel support (16); 3DES and up to 256-bit AES Encryption, Site to Site Tunneling, L2TP Server/Client, GRE, HTTPS, RADIUS	-WiFi	802.11b/g Radio

Contact Information

Microhard Systems Inc.
150 Country Hills Landing N.W.
Calgary, AB, Canada T3K 5P3

Email: info@microhardcorp.com
Tel: (403) 248-0028
Fax: (403) 248-2762

Copyright 2016 Microhard Systems Inc.
Specifications subject to change without notice.

